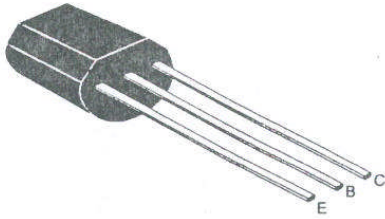


TRANSISTOR 三極管(SOUTH KOREA SEMICONDUCTOR)

SK9013

www.DataSheet4U.com


TO-92

1W OUTPUT AMPLIFIER OF PORTABLE RADIOS IN CLASS B PUSH-PULL OPERATION

- High total power dissipation. (PT=625mW)
- High Collector Current. ($I_C=500\text{mA}$)
- Complementary to SK9012
- Excellent h_{FE} linearity.

CLASSIFICATION h_{FE} (1)

Classification	D	E	F	G	H
h_{FE} (1)	64-91	78-112	96-135	112-166	144-202

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	500	mA

Characteristic	Symbol	Rating	Unit
Collector Dissipation	P_C	625	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~150	$^\circ\text{C}$

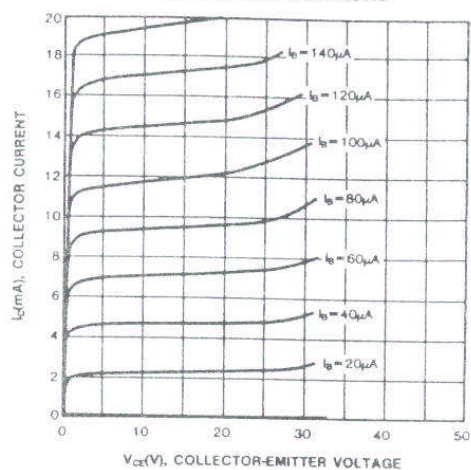
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	40			V	$I_C=100\mu\text{A}$, $I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	20			V	$I_C=1\text{mA}$, $I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	5			V	$I_E=100\mu\text{A}$, $I_C=0$
Collector Cutoff Current	I_{CBO}			100	nA	$V_{CB}=25\text{V}$, $I_E=0$
Emitter Cutoff Current	I_{EBO}			100	nA	$V_{EB}=3\text{V}$, $I_C=0$
DC Current Gain	h_{FE1}	64	120	202		$V_{CE}=1\text{V}$, $I_C=50\text{mA}$
	h_{FE2}	40	120			$V_{CE}=1\text{V}$, $I_C=500\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$		0.16	0.6	V	$I_C=500\text{mA}$, $I_B=50\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE}(\text{sat})$		0.91	1.2	V	$I_C=500\text{mA}$, $I_B=50\text{mA}$
Base-Emitter On Voltage	$V_{BE}(\text{on})$	0.6	0.67	0.7	V	$V_{CE}=1\text{V}$, $I_C=10\text{mA}$

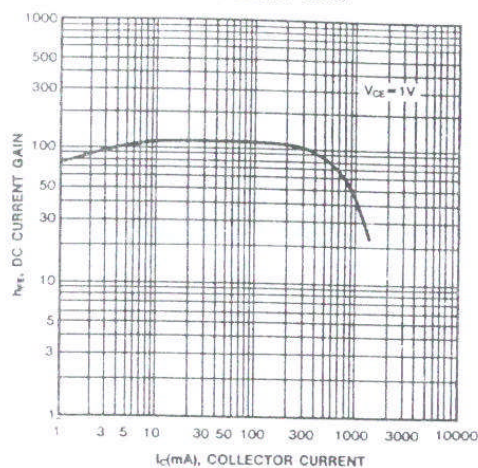
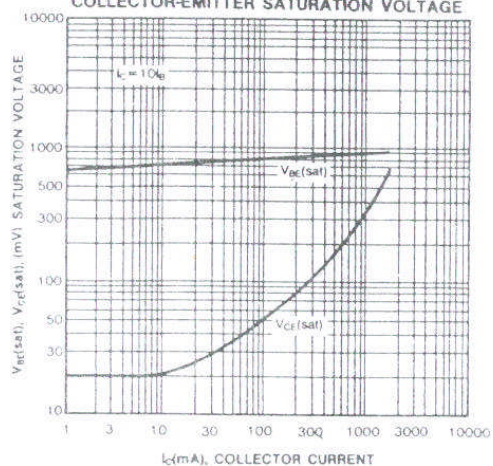
TRANSISTOR 三極管 (SOUTH KOREA SEMICONDUCTOR)

SK9013

STATIC CHARACTERISTIC



DC CURRENT GAIN

BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE

CURRENT GAIN-BANDWIDTH PRODUCT

